Index of Claims



Application/Control No.

10/849,224

Examiner

Fayez G. Assaf

Applicant(s)/Patent under Reexamination

PARK, JOO-YOUN
Art Unit

2872

| 1 | Rejected | - | (Through numeral)<br>Cancelled | N | ı | Non-Elected  | A | Appeal   |
|---|----------|---|--------------------------------|---|---|--------------|---|----------|
| = | Allowed  | ÷ | Restricted                     | ı |   | Interference | 0 | Objected |

| Cla             | aim Date |          |               |          |          |          | 7        | Claim Date |          |           |                |          |          |                 | 7        | Claim Date |          |          |          |          |          |            | <del></del> |          |                 | $\neg$   |          |           |          |               |          |           |
|-----------------|----------|----------|---------------|----------|----------|----------|----------|------------|----------|-----------|----------------|----------|----------|-----------------|----------|------------|----------|----------|----------|----------|----------|------------|-------------|----------|-----------------|----------|----------|-----------|----------|---------------|----------|-----------|
|                 |          |          |               |          | 7        |          |          |            |          |           |                |          |          |                 |          |            |          |          | П        |          |          |            |             |          |                 | $\neg$   |          |           |          |               |          |           |
| =               | Original | ٢        | •             |          | ı        |          |          |            |          | 1         | - <del>-</del> | Original | .        |                 |          |            |          |          |          |          |          | <i>च</i> ∣ | Original    |          |                 |          | ı        |           |          |               |          | ŀ         |
| Final           | ġ.       | 14       | -             |          |          | - 1      |          | - 1        |          | 1         | Final          | ġ        |          |                 |          | -          |          | l        | -        |          |          | Final      | ıĝ          |          |                 |          |          |           |          | - 1           |          |           |
| -               | Ō,       | 5        | 5             |          |          | l        |          | ŀ          |          | 1         | "              | Ō        |          |                 |          |            |          |          |          |          |          | "          | Ō           |          |                 |          |          |           | 1        | ł             |          |           |
| <del></del>     | 1        |          | $\rightarrow$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | -+         |          | -         | $\vdash$       | 51       | Н        | Н               | ┪        | $\dashv$   | -        | +        | ┿        |          | -{       | <b>—</b>   | 101         |          | $\vdash$        | $\dashv$ | -        |           | -        | -             | $\dashv$ | $\dashv$  |
| <del></del>     |          | 1        | -             | $\dashv$ | -        | -        | -        | -          |          | -         |                |          | Н        | $\vdash$        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ |          |          | -{       |            | 102         | _        | $\dashv$        | $\dashv$ |          | -         | $\dashv$ | $\dashv$      | +        | -         |
| $\vdash$        |          | 0        |               | $\dashv$ | $\dashv$ | $\dashv$ | -        |            |          | -         | <u> </u>       | 52       | -        |                 |          | $\dashv$   | $\dashv$ | +        | +        | +-       | -        |            | 102         |          | $\dashv$        | $\dashv$ | $\dashv$ | -         |          | -+            | -        | $\dashv$  |
| 1               | 3        | 0        |               |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$   |          | -         | -              | 53       | Ш        | $\dashv$        | $\dashv$ |            | -        | -        | 4        | +        |          |            | 103         |          | $\dashv$        |          |          | -         |          | +             | +        | 4         |
|                 | 4        | 0        | _             | $\dashv$ | -        |          |          | -+         |          | 4         | ļ              | 54       | Ш        | -               | _        | -          | 4        | 4        | 4        |          | -        | <u> </u>   | 104         |          | $\vdash$        | $\dashv$ | $\dashv$ |           |          | $\rightarrow$ | -        | -         |
|                 | 5        | 4        | -4            |          | -        | 4        | _        | _          | <u> </u> | -1        | <u> </u>       | 55       | <u> </u> |                 |          |            | -        | -        | 4        | _        | 4        |            | 105         |          | -               | $\dashv$ | -        | _         | -        | $\dashv$      | +        | 4         |
|                 | 6        |          | _             | -        | -        | _        | _        | _          | _        | 4         |                | 56       |          |                 | _        | _          | -        | -        | 4        | -        | 4        | <u> </u>   | 106         | _        | Н               | -        | _        |           |          | -             | -        | ⊣.        |
| $\vdash$        | 7        |          | -             | -        |          | -        |          | -          | - -      | _         |                | 57       | Щ        | $\Box$          | _        | _          | 4        | 4        | _        |          | 4        | <u> </u>   | 107         | $\perp$  | Н               | 4        | _        | _         | _        | -             | 4        |           |
| <b>—</b>        | 8        |          | _             | 4        | _        | _        | _        | _          | _        | _         |                | 58       | Щ        | <u> </u>        | _        | _          | 4        | _        | _        |          | 4        |            | 108         |          | Н               | _        | _        |           |          | 4             | 4        | 4         |
|                 | 9        |          |               | _        | _        | _        |          |            |          | 4         |                | 59       | Щ        | _               | _        | _          | 4        | _        | _        |          | 4        |            | 109         | Ш        |                 | _        | _        | _         |          | _             | 4        | 4         |
|                 | 10       | Щ        | _             | _        | _        | _        | _        | 4          | _        | 4         |                | 60       |          |                 | _        | _          | 4        | _        |          |          | 4        |            | 110         |          | _               | _        | _        | _         |          | _             | _        | _         |
|                 | 11       |          | $\dashv$      | _        | _        |          |          | _          |          | _         |                | 61       | Ш        | $\square$       |          | _          |          | _        | 4        | 4        | 4        |            | 111         |          | $\sqcup$        |          |          | _         |          |               | _        | _         |
| $\sqcup$        | 12       | Ш        |               | _        | _        |          |          |            |          | _         | <u></u>        | 62       | Ш        | Ш               |          | _          |          |          | $\perp$  | _ _      | _        |            | 112         |          |                 |          |          | _         | Ц        | _ļ            | _        | _         |
|                 | 13       |          |               | _        |          |          |          | $\bot$     | $\perp$  | _         |                | 63       | Ш        | Ш               |          |            |          | $\perp$  | $\perp$  | $\perp$  | 1        |            | 113         |          | Ш               |          |          | Ц         | Ш        |               | _        | _         |
|                 | 14       | L_       |               |          | _1       |          |          |            |          | _         |                | 64       |          |                 |          | l          | _        | _        | _        | $\perp$  | _        |            | 114         |          | Ш               |          |          |           |          |               | $\perp$  |           |
|                 | 15       |          |               |          |          |          |          |            |          |           |                | 65       | $\Box$   |                 |          | [          | [        |          |          |          |          | L          | 115         |          |                 |          |          |           |          | [.            | _[       | _         |
|                 | 16       |          |               | $\Box$   | 괴        | $\Box$   |          | $\Box$     |          | ╛         |                | 66       |          |                 | [        |            |          |          | $\perp$  |          | ╛        |            | 116         |          | Ш               |          |          |           |          |               |          |           |
|                 | 17       |          |               |          |          |          |          |            |          |           | 1              | 67       |          |                 |          |            |          |          |          |          | J        |            | 117         |          |                 |          |          |           |          |               | ŀ        |           |
|                 | 18       |          |               |          |          |          |          |            |          | 7         |                | 68       |          |                 |          |            | $\Box$   |          |          |          |          |            | 118         |          |                 |          |          |           |          |               |          |           |
|                 | 19       |          |               |          |          |          |          | T          |          | 7         |                | 69       |          |                 |          |            | $\neg$   | T        |          |          |          |            | 119         |          |                 |          |          |           |          | $\neg$        | П        |           |
|                 | 20       |          | $\sqcap$      |          |          | $\neg$   |          | $\neg$     |          | ٦         |                | 70       |          |                 |          | $\neg$     | $\neg$   | $\neg$   | T        | $\top$   | 1        |            | 120         |          |                 |          |          |           |          |               |          |           |
| П               | 21       |          |               |          | $\neg$   | $\neg$   |          | $\neg$     | 7        | 7         |                | 71       |          |                 |          |            |          | $\neg$   |          |          | 7        |            | 121         |          |                 |          |          |           |          |               |          |           |
|                 | 22       |          |               |          |          |          |          |            |          | 7         |                | 72       | Г        |                 |          |            |          |          |          | $\neg$   | 7        |            | 122         |          |                 |          |          |           |          | $\neg$        | $\neg$   | $\neg$    |
|                 | 23       |          | $\neg$        | T        | 寸        | $\neg$   |          | 7          |          | 7         |                | 73       |          |                 |          |            | T        | 寸        | $\top$   | T        | 1        |            | 123         |          |                 |          |          |           |          | $\neg$        | 丁        | $\Box$    |
|                 | 24       |          | $\neg$        | $\neg$   | 7        | $\neg$   | 一        |            |          | 7         |                | 74       |          |                 |          |            | T        | T        | 1        |          | 1        |            | 124         |          |                 |          |          |           |          | 一             | 寸        | $\neg$    |
|                 | 25       |          |               |          |          | $\neg$   |          |            | $\top$   | ╗         |                | 75       |          |                 |          | 寸          | T        | $\dashv$ | 十        | $\neg$   | 7        |            | 125         |          |                 |          |          |           |          |               | 丁        |           |
| $\Box$          | 26       |          | $\neg$        | T        | 寸        | $\neg$   | $\neg$   | 寸          | $\neg$   | ヿ         |                | 76       |          |                 | $\neg$   |            |          |          | 7        | 1        | 1        |            | 126         |          |                 |          |          |           |          |               | T        | ╗         |
| $\vdash$        | 27       |          | $\dashv$      | 寸        | 寸        | 一        | 寸        | 寸          | 十        | ┪         |                | 77       |          |                 | 7        | 一          | 寸        | _        | _        | $\dashv$ | ┪        | $\vdash$   | 127         |          |                 |          |          |           |          | 7             | 寸        | $\exists$ |
| -               | 28       |          | $\neg$        | _        | _        |          |          |            | _        | ┨         | -              | 78       |          |                 | _        | $\dashv$   | 一        | _        | _        |          | ┪        | $\vdash$   | 128         | $\neg$   |                 |          | $\neg$   |           |          |               | $\dashv$ | ╗         |
| $\vdash$        | 29       | 1        | $\dashv$      | $\dashv$ | 寸        | $\dashv$ | 一        | 一          | $\dashv$ | ┨         | <b>—</b>       | 79       |          |                 | $\neg$   | ᅥ          | $\dashv$ | ┪        | 十        | $\top$   | ┪        |            | 129         |          |                 |          |          |           |          | $\neg$        | $\dashv$ | ╗         |
| $\vdash$        | 30       |          | $\dashv$      | $\dashv$ | 寸        | $\dashv$ | $\neg$   | $\dashv$   | $\dashv$ | ┥         |                | 80       |          |                 | -1       |            | 十        | -        | 十        | $\top$   | ┪        |            | 130         |          |                 |          |          | $\neg$    | $\neg$   | 7             | 十        | $\dashv$  |
| $\vdash$        | 31       |          | +             | $\dashv$ | +        | $\dashv$ | +        | 十          | +        | ┪         |                | 81       |          | $\vdash$        | ᅱ        | -          | -        | $\dashv$ | $\dashv$ | $\dashv$ | ┪        |            | 131         | $\dashv$ | $\vdash$        | -        |          | $\dashv$  | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$  |
| $\vdash$        | 32       | Н        | +             | +        | -        | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | ┪         |                | 82       | Н        | $\vdash$        | $\neg$   | $\dashv$   | $\dashv$ | +        | 十        | - -      | 1        |            | 132         |          | $\vdash$        | $\dashv$ |          | $\dashv$  | $\dashv$ | 寸             | $\dashv$ | $\dashv$  |
| $\vdash$        | 33       | -        | +             | +        | -+       | +        | +        | $\dashv$   | +        | $\exists$ | -              | 83       | H        | H               | _        | -          | -+       |          | $\dashv$ | - -      | 1        |            | 133         |          | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | 一             | $\dashv$ | $\dashv$  |
|                 | 34       |          |               | -        | -1       | -        | $\dashv$ | $\dashv$   | +        | $\dashv$  |                | 84       | H        | H               |          | -          | -        | 十        | +        | +        | 1        |            | 134         |          | $\vdash$        |          | -        | $\dashv$  | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$  |
| $\vdash$        | 35       | Н        | $\dashv$      | $\dashv$ | -        |          | -        | $\dashv$   | _        | $\dashv$  |                | 85       | Н        | $\vdash$        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | ╅        | $\dashv$ | 1        | <b> </b>   | 135         | Н        | Н               |          |          | $\vdash$  | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$  |
| $\vdash$        | 36       | Н        | -             | -        | ┪        | -        | -        | $\dashv$   | ╅        | $\dashv$  | -              | 86       | Н        | Н               |          | -          | $\dashv$ | $\dashv$ | +        | +        | Η.       |            | 136         |          | $\vdash$        |          | $\dashv$ | $\exists$ | $\vdash$ | $\dashv$      | -        | $\dashv$  |
| $\vdash$        | 37       | $\vdash$ | $\dashv$      | -+       | -+       | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$  | -              | 87       | Н        | $\vdash$        | $\dashv$ | -          | -+       | $\dashv$ | -        | - -      | ┪        | <b>—</b>   | 137         |          | H               | -        | $\dashv$ | $\vdash$  | $\dashv$ | 十             | 十        | $\dashv$  |
| $\vdash \vdash$ | 38       | $\vdash$ | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ | -        | -+         | -        | $\dashv$  | -              | 88       | $\vdash$ | $\vdash$        | -+       |            | -+       | -+       | $\dashv$ | +        | ┨        | -          | 138         |          | $\vdash \vdash$ | $\dashv$ | $\dashv$ |           | $\vdash$ | $\dashv$      | +        | $\dashv$  |
| $\vdash \vdash$ | 39       | $\vdash$ | $\dashv$      | $\dashv$ | +        |          | -+       | -+         |          | $\dashv$  | -              | 89       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$   | $\dashv$ | +        | +        | +        | 1        | -          | 139         | -        | ⊢               | -        | $\dashv$ | $\dashv$  | $\dashv$ | -             | +        | $\dashv$  |
| $\vdash$        | 40       | $\vdash$ | $\dashv$      | $\dashv$ | -        | $\dashv$ | -        | -+         | +        | $\dashv$  |                | 90       | $\vdash$ | $\vdash\vdash$  | $\dashv$ | $\dashv$   | $\dashv$ | +        | +        | +        | ┨        | -          | 140         | -        | $\vdash$        | $\dashv$ | $\dashv$ | $\vdash$  | $\vdash$ | -+            | +        | $\dashv$  |
| $\vdash$        | 41       | -        | -             | -+       | -        |          |          | $\dashv$   | +        | +         | -              | 91       | H        | $\vdash$        |          |            | -+       | -        | +        |          | $\dashv$ | -          | 141         | -        | $\vdash \vdash$ | -        | $\dashv$ | -         | $\dashv$ |               | +        | $\dashv$  |
| $\vdash$        | 41       | -        |               |          | -        | $\dashv$ | $\dashv$ | $\dashv$   | +        | $\dashv$  | -              | 91       | H        | $\vdash$        | -+       |            | $\dashv$ | +        | +        | +        | -        | -          | 141         | <u> </u> | $\vdash \vdash$ | -        |          | $\vdash$  | $\vdash$ | $\dashv$      | -        | $\dashv$  |
| $\vdash$        |          | -        | -             | -+       | -        | $\dashv$ | $\dashv$ | $\dashv$   | +        | 4         | -              |          | $\vdash$ | $\vdash \vdash$ | -        |            | +        |          | +        | +        | -        | -          | 143         |          | $\vdash \vdash$ | $\vdash$ | $\dashv$ | $\dashv$  | $\vdash$ | -+            | -+       | $\dashv$  |
| $\vdash$        | 43       | -        |               | -+       | -        | $\dashv$ | _        | $\dashv$   | +        | 4         | -              | 93       | Н        | $\vdash \dashv$ |          |            |          | -+       | +        | +        | 4        | <b>—</b>   | 144         | -        | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$  |          | -1            | $\dashv$ | $\dashv$  |
| $\vdash$        | 44       | <u> </u> | $\dashv$      | $\dashv$ | -        | $\dashv$ | $\dashv$ | -          | $\dashv$ | $\dashv$  |                | 94       | Н        | $\vdash$        |          | <b></b> ∤  |          | -        |          | +        | 4        |            |             |          | $\vdash \vdash$ | $\dashv$ |          |           |          |               | -        | -         |
| $\vdash$        | 45       |          |               | -        | _        |          | _        | $\dashv$   | -        | 4         |                | 95       |          |                 | _        | _          | _        | -        | - -      | - -      | 4        | -          | 145         |          | $\vdash \vdash$ | $\sqcup$ | _        | $\vdash$  | $\sqcup$ | $\dashv$      | -+       | -         |
| $\vdash$        | 46       | <u> </u> | $\dashv$      | 4        | _ļ       | _        | _        | _          |          | 4         | -              | 96       | Ш        |                 |          |            | _        | 4        | 4        | 4-       | 4        | <u> </u>   | 146         | <u> </u> | $\vdash$        | $\dashv$ | _        | $\dashv$  | Ш        | _             | $\dashv$ |           |
| $\vdash$        | 47       |          | $\sqcup$      | 4        | 4        | _        | _        | $\dashv$   | $\perp$  | 4         |                | 97       | $\sqcup$ | Ш               |          |            | _        | 4        | 4        | _        | 4        | <u> </u>   | 147         |          | $\sqcup$        | $\sqcup$ | $\dashv$ | -         | Ш        | 4             | 4        | _         |
| $\vdash$        | 48       | Щ        |               | _        | _        | _        |          | _          |          | 4         | <u> </u>       | 98       |          |                 | _        |            | _ļ       |          | _        | _ _      | 4        | <u></u>    | 148         | _        | $\sqcup$        |          |          | $\Box$    | Ш        |               | -        | _         |
| $\vdash$        | 49       |          | $\perp$       | _        | _        | _        | _        | 4          | _        | 4         | <u></u>        | 99       |          |                 | _        | _          | _        | _        | _        | - -      | 4        |            | 149         |          | $\sqcup$        |          |          |           |          | _             | _        | _         |
|                 | 50       |          |               | L        |          |          |          |            |          | ⅃         |                | 100      |          | L               |          |            |          |          |          |          |          |            | 150         |          |                 |          |          |           |          |               |          | - 1       |